



清华大学高等研究院

Institute for Advanced Study, Tsinghua University

物理学学术报告 Physics Seminars (biweekly)

Title: Classification of topological insulators using Clifford algebras

Speaker: Prof. Akira Furusaki (*Riken, Japan*)

Time: 3:15pm, Wednesday, 2013-12-11
(2:45~3:15pm, Tea, Coffee, and Cookie)

Venue: Conference Hall 322, Science Building, Tsinghua University

Abstract

I will review a simplified version of classification theory of topological insulators and superconductors. The theory is based on topological classification of mass terms of Dirac Hamiltonians. This approach can be used to classify topological insulators with a reflection symmetry (topological crystalline insulators) as well. I will also discuss stability of surface states against Anderson localization.